

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

received 12/06/2012
Project 7543
Remediation 200374881

D: 280-36038-1

Client Sample ID: BONCARBO 33-31TR NATIVE EAST

Lab Sample ID: 280-36038-7

Date Collected: 11/15/12 13:47

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 91.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.093		mg/Kg	☼	11/21/12 07:00	11/23/12 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.10		%			11/19/12 08:21	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR NATIVE WEST

Lab Sample ID: 280-36038-8

Date Collected: 11/15/12 13:59

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 95.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.10		mg/Kg	☼	11/21/12 07:00	11/23/12 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0		0.10		%			11/19/12 08:21	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR NATIVE SOUTH

Lab Sample ID: 280-36038-9

Date Collected: 11/15/12 14:03

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 96.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.097		mg/Kg	☼	11/21/12 07:00	11/23/12 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.10		%			11/19/12 08:21	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR NATIVE NORTH

Lab Sample ID: 280-36038-10

Date Collected: 11/15/12 13:54

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 94.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		0.092		mg/Kg	☆	11/21/12 07:00	11/23/12 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.10		%			11/19/12 08:21	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR TOP OF PIT

Lab Sample ID: 280-36038-11

Date Collected: 11/15/12 14:10

Matrix: Solid

Date Received: 11/16/12 10:00

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	17		1.2		No Unit		11/27/12 15:00	11/29/12 07:00	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.10		mg/Kg	☼	11/21/12 07:00	11/23/12 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.7		0.10		%			11/19/12 08:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.50		0.100		SU			11/26/12 19:20	1
Specific Conductance	120		2.0		umhos/cm			11/19/12 13:04	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR BOTTOM OF PIT

Lab Sample ID: 280-36038-12

Date Collected: 11/15/12 14:15

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 71.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.3		ug/Kg	☼	11/26/12 06:00	11/26/12 21:00	1
Ethylbenzene	ND		6.3		ug/Kg	☼	11/26/12 06:00	11/26/12 21:00	1
Toluene	ND		6.3		ug/Kg	☼	11/26/12 06:00	11/26/12 21:00	1
Xylenes, Total	ND		6.3		ug/Kg	☼	11/26/12 06:00	11/26/12 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		58 - 140	11/26/12 06:00	11/26/12 21:00	1
Toluene-d8 (Surr)	101		80 - 126	11/26/12 06:00	11/26/12 21:00	1
4-Bromofluorobenzene (Surr)	118		76 - 127	11/26/12 06:00	11/26/12 21:00	1
Dibromofluoromethane (Surr)	113		75 - 121	11/26/12 06:00	11/26/12 21:00	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.7		mg/Kg	☼	11/19/12 12:39	11/20/12 11:10	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		77 - 123	11/19/12 12:39	11/20/12 11:10	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.6		mg/Kg	☼	11/20/12 18:05	11/24/12 08:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	55		49 - 115	11/20/12 18:05	11/24/12 08:32	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	42		2.4		No Unit		11/27/12 15:00	11/29/12 07:00	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	450		1.2		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Boron	ND		12		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Cadmium	ND		0.61		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Calcium	11000		61		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Magnesium	5100		24		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Molybdenum	ND		2.4		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Silver	ND		1.2		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1
Sodium	4400		610		mg/Kg	☼	11/21/12 07:00	11/21/12 19:01	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.12		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Chromium	24		0.25		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Copper	33		0.31		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Lead	15		0.12		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Nickel	18		0.19		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Selenium	1.5		0.25		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1
Zinc	79		1.2		mg/Kg	☼	11/20/12 08:00	11/20/12 22:57	1

TestAmerica Denver

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine Soil Suite

TestAmerica Job ID: 280-36038-1

Client Sample ID: BONCARBO 33-31TR BOTTOM OF PIT

Lab Sample ID: 280-36038-12

Date Collected: 11/15/12 14:15

Matrix: Solid

Date Received: 11/16/12 10:00

Percent Solids: 71.6

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		20		ug/Kg	☼	11/26/12 12:15	11/26/12 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		28		mg/Kg	☼	11/26/12 12:00	11/26/12 16:02	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	24		20		mg/Kg	—		11/27/12 13:59	10
Percent Moisture	28		0.10		%			11/19/12 08:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.62		0.100		SU	—		11/26/12 19:19	1
Specific Conductance	450		2.0		umhos/cm			11/19/12 13:04	1